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DATE MAILED: 10/03/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/987,881	11/16/2001	Takashi Seki	216231US2S	7596
22850	7590 10/03/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			BAYARD, EMMANUEL	
1940 DUKE STREET ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			2638	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Sufficience	Application No.	Applicant(s)			
/	09/987,881	SEKI ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Emmanuel Bayard	2638			
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communic GHTS. This application is subj	is application. If not included cation will be mailed in due course. THIS			
1. This communication is responsive to <u>9/22/05</u> .					
2. The allowed claim(s) is/are <u>1-20</u> .					
3. \square The drawings filed on <u>16 November 2001</u> are accepted by	the Examiner.				
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)					
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☐ Interview Sumr Paper No./Ma 8), 7. ☐ Examiner's Am	il Date endment/Comment tement of Reasons for Allowance			

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

DETAILED ACTION

This is in response to IDS filed on 9/22/05 in which claims 1-20 are pending. The applicant's IDS has been fully considered therefore this case is in condition for allowance.

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance: a differential detection circuit configured to conduct detection using a detection-subject symbol of a plurality of symbols indicated at a predetermined interval in the same frequency range and using a symbol ahead said detection-subject symbol by a predetermined time in at least either one output of said additive information transmission carrier and said reception-synchronization pilot signal output from said demodulation circuit; and a first S/N ratio generation circuit configured to generate an S/N ratio based on a detection output provided from said differential detection circuit, said S/N ratio indicating a reception quality of said OFDM transmit signal as recited in claims 1 and 11.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- Usui U.S. Patent No 6,269,128 teaches a clock recovery control in differential detection.

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Yamamoto et al U.S. patent No 6,680,901 B1 teaches an OFDM demodulator.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel Bayard whose telephone number is 571 272 3016. The examiner can normally be reached on Monday-Friday (7:Am-4:30PM)

Alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vanderpuye Kenneth can be reached on 571 272 3078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Emmanuel Bayard Primary Examiner Art Unit 2638

9/26/05

EMMANUEL BAYARD PRIMARY EXAMINER